

BookletChart™

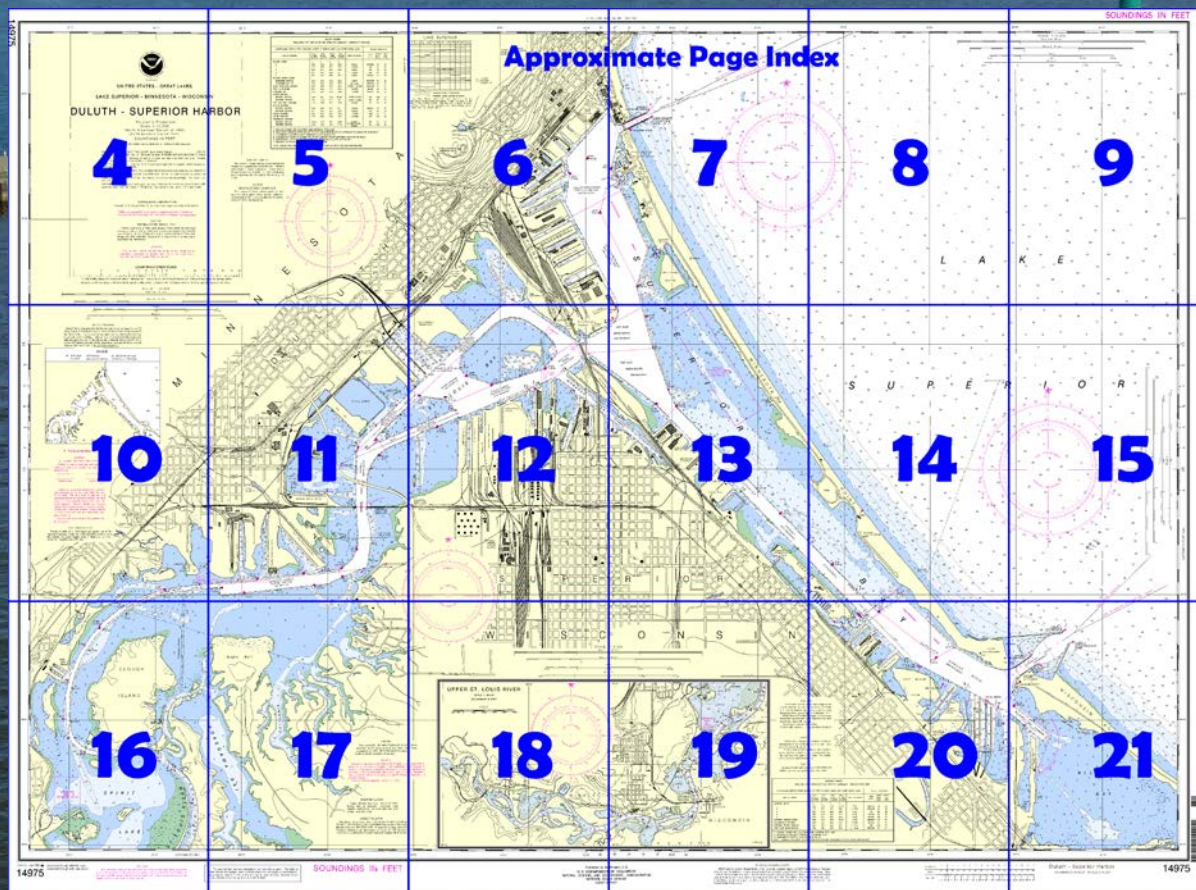
Duluth – Superior Harbor NOAA Chart 14975



A reduced-scale NOAA nautical chart for small boaters
When possible, use the full-size NOAA chart for navigation.



- Complete, reduced-scale nautical chart
- Print at home for free
- Convenient size
- Up-to-date with Notices to Mariners
- Compiled by NOAA's Office of Coast Survey, the nation's chartmaker



Published by the
National Oceanic and Atmospheric Administration
National Ocean Service
Office of Coast Survey
www.NauticalCharts.NOAA.gov
888-990-NOAA

What are Nautical Charts?

Nautical charts are a fundamental tool of marine navigation. They show water depths, obstructions, buoys, other aids to navigation, and much more. The information is shown in a way that promotes safe and efficient navigation. Chart carriage is mandatory on the commercial ships that carry America's commerce. They are also used on every Navy and Coast Guard ship, fishing and passenger vessels, and are widely carried by recreational boaters.

What is a BookletChart™ ?

This BookletChart is made to help recreational boaters locate themselves on the water. It has been reduced in scale for convenience, but otherwise contains all the information of the full-scale nautical chart. The bar scales have also been reduced, and are accurate when used to measure distances in this BookletChart. See the Note at the bottom of page 5 for the reduction in scale applied to this chart.

Whenever possible, use the official, full scale NOAA nautical chart for navigation. Nautical chart sales agents are listed on the Internet at <http://www.NauticalCharts.NOAA.gov>.

This BookletChart does NOT fulfill chart carriage requirements for regulated commercial vessels under Titles 33 and 44 of the Code of Federal Regulations.

Notice to Mariners Correction Status

This BookletChart has been updated for chart corrections published in the U.S. Coast Guard Local Notice to Mariners, the National Geospatial Intelligence Agency Weekly Notice to Mariners, and, where applicable, the Canadian Coast Guard Notice to Mariners. Additional chart corrections have been made by NOAA in advance of their publication in a Notice to Mariners. The last Notices to Mariners applied to this chart are listed in the Note at the bottom of page 7. Coast Pilot excerpts are not being corrected.

For latest Coast Pilot excerpt visit the Office of Coast Survey website at <http://www.nauticalcharts.noaa.gov/nsd/searchbychart.php?chart=14975>



(Selected Excerpts from Coast Pilot).

Duluth-Superior Harbor is at the W end of Lake Superior. The harbor has been developed along Superior Bay and the lower part of the St. Louis River, which forms part of the **State boundary** between Wisconsin and Minnesota. It is one of the most important harbors on the Great Lakes because of its range of facilities and the magnitude of its commerce. The cities **Superior, Wis., and Minn.,** front the S and N sides of the harbor, respectively.

Superior Entry South Breakwater Light (46°42.6'N., 92°00.4'W.), 70 feet above the water, is shown from a white cylindrical tower on a white

building on the outer end of the breakwater on the S side of the S harbor entrance. A fog signal is at the light.

Duluth Harbor South Breakwater Inner Light (46°46.7'N., 92°05.5'W.), 68 feet above the water, is shown from a black cylindrical tower with a white lantern room on the S side of the N harbor entrance.

Superior Bay, about 6.5 miles long and 0.5 to 1 mile wide, is a natural shallow basin separated from Lake Superior by **Minnesota Point**, a low, narrow strip of sand and gravel. The bay is entered from Lake Superior through **Duluth Entry** at the N end of Minnesota Point and through **Superior Entry** at the S end of the point. Between the entrances, the lakeside of Minnesota Point has deep water within 0.4 mile. A submerged breakwater extends 1,000 feet S from shore in the small bight on the N side of Duluth Entry. A buoy marks the outer end of the ruins. Several cribs are on the W side of the bight.

Allouez Bay is a very shallow bay that extends SE from Superior Bay S of Superior Entry and is enclosed on the E by **Wisconsin Point**.

Nemadji River flows from **Moosecamp Lake**, about 40 miles above Superior, and empties into the W side of Superior Bay opposite Superior Entry. In 1982, a depth of 4½ feet was available for 5 miles above the mouth, thence in 1976, 2 feet above that point.

St. Louis River flows into the W side of Superior Bay near its N end through a narrow gap between **Rices Point** on the N and **Connors Point** on the S. **St. Louis Bay** is a widening in the river that extends from these points to **Grassy Point**, 3 miles SW. **Howards Bay** is a narrow inlet that leads SE from St. Louis Bay for 1 mile on the W side of Connors Point. Above Grassy Point, the river again widens, covers a large shallow area, and is divided by points and islands into a number of irregularly shaped bays and inlets. **Clough Island**, the largest in this area, encloses the N side of **Spirit Lake**, a section of the river mostly isolated by islands. **Minnesota Channel**, the dredged channel through this area, follows the Minnesota shore for 2 miles W from Grassy Point, thence turns S between Clough Island and the mainland, and thence turns E on the S side of Clough Island to the head of the dredged channel. Above Clough Island, the natural channel of the St. Louis River is navigable for varying drafts to just above **du Lac**, about 8 miles above Clough Island. The river is practically a level pool at ordinary stages to the foot of the rapids just above Fond du Lac. The channel in this reach is well marked by buoys, and vessels of suitable draft should have no difficulty navigating it. A wreck, covered about 2½ feet, is on the E side of the river at **Oliver**, about 3.8 miles above Clough Island.

Coast Guard

Duluth Coast Guard Station is on the W side of Minnesota Point, 0.5 mile S of Duluth Ship Canal. A Coast Guard **Marine Safety Office** is in Duluth. (See appendix for address.) Harbor regulations

Two companies in the harbor have docking facilities for making repairs to deep-draft vessels, and three other companies have shops and make repairs to vessels at their berths. Fraser Shipyard, Inc., at the head of **Caution.**—A sunken wreck is 0.9 mile ENE of the entrance to Duluth Ship Canal.

The area immediately ESE of Duluth Harbor Basin Traffic Lighted Buoy is subject to shoaling.

Local magnetic disturbance.—Differences from normal variation of 001°E to 005°E have been observed in the lake about 10 miles from Duluth.

Harbor regulations.—A **speed limit** of 8 mph (7 knots) is enforced in Duluth-Superior Harbor.

U.S. Coast Guard Rescue Coordination Center 24 hour Regional Contact for Emergencies

RCC Cleveland

Commander

9th CG District

Cleveland, OH

(216) 902-6117

Navigation Managers Area of Responsibility



NOAA's navigation managers serve as ambassadors to the maritime community.

They help identify navigational challenges facing professional and recreational mariners, and provide NOAA resources and information for safe navigation. For additional information, please visit nauticalcharts.noaa.gov/service/navmanagers

To make suggestions or ask questions online, go to nauticalcharts.noaa.gov/inquiry.

To report a chart discrepancy, please use ocsdata.ncd.noaa.gov/idrs/discrepancy.aspx.

Lateral System As Seen Entering From Seaward

on navigable waters except Western Rivers



For more information on aids to navigation, including those on Western Rivers, please consult the latest USCG Light List for your area.

These volumes are available online at <http://www.navcen.uscg.gov>

92° 12'

92° 11'

92° 10'

46°
47'

46°
46'



THE NATION'S CHARTMAKER SINCE 1807

UNITED STATES - GREAT LAKES

LAKE SUPERIOR - MINNESOTA - WISCONSIN

DULUTH - SUPERIOR HARBOR

Polyconic Projection

Scale 1:15,000

North American Datum of 1983
(World Geodetic System 1984)

SOUNDINGS IN FEET

Additional information can be obtained at nauticalcharts.noaa.gov.

PLANE OF REFERENCE OF THIS CHART (Low Water Datum) 601.1 ft.
Referred to mean water level at Rimouski, Quebec, International Great Lakes Datum (1985).
SAILING DIRECTIONS. Bearings of sailing courses are true and distances given thereon
are in statute miles between points of departure.
AIDS TO NAVIGATION. Consult U. S. Coast Guard Light List for supplemental information
concerning aids to navigation.
SYMBOLS AND ABBREVIATIONS. For a complete list of symbols and abbreviations, see Chart No. 1.
BRIDGE AND OVERHEAD CABLE CLEARANCES. When the water surface is above low
Water Datum, bridge and overhead clearances are reduced correspondingly. For clearances
see U.S. Coast Pilot 6.
AUTHORITIES. Hydrography and topography by the National Ocean Service, Coast Survey, with
additional data from the Corps of Engineers, Geological Survey, and U. S. Coast Guard.

SUPPLEMENTAL INFORMATION

Consult U. S. Coast Pilot 6 for important supplemental information.

Sailing courses and limits indicated in magenta are recommended by
the Lake Carriers Association and the Canadian Shipowners Association.

CAUTION

POTABLE WATER INTAKE (PWI)

Vessels operating in fresh water lakes or rivers shall not discharge
sewage, or ballast, or bilge water within such areas adjacent to domestic
water intakes as are designated by the Commissioner of Food and
Drugs (21 CFR 1250.93). Consult U. S. Coast Pilot 6 for important
supplemental information.

WARNING

The prudent mariner will not rely solely on any single aid to
navigation, particularly on floating aids. See U. S. Coast Guard
Light List and U. S. Coast Pilot for details.

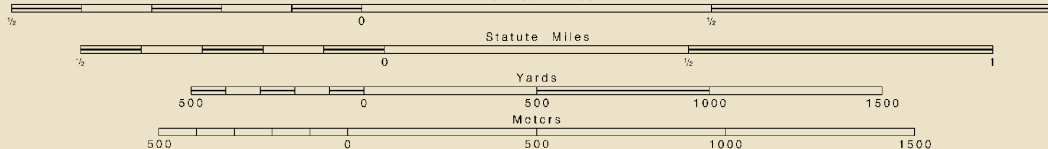
CAUTION

BASCULE BRIDGE CLEARANCES

For bascule bridges, whose spans do not
open to a full upright or vertical position, unlimited
vertical clearance is not available for the entire
charted horizontal clearance.

SCALE 1:15,000

Nautical Miles



SOURCE DIAGRAM

The outlined areas represent the limits of the most recent hydrographic
survey information that has been evaluated for charting. Survey
information is indicated in this diagram by date and type of survey. Channel

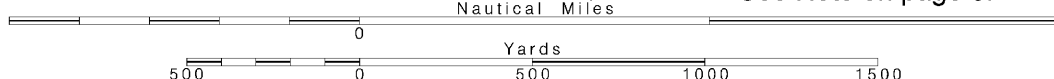
Joins page 10

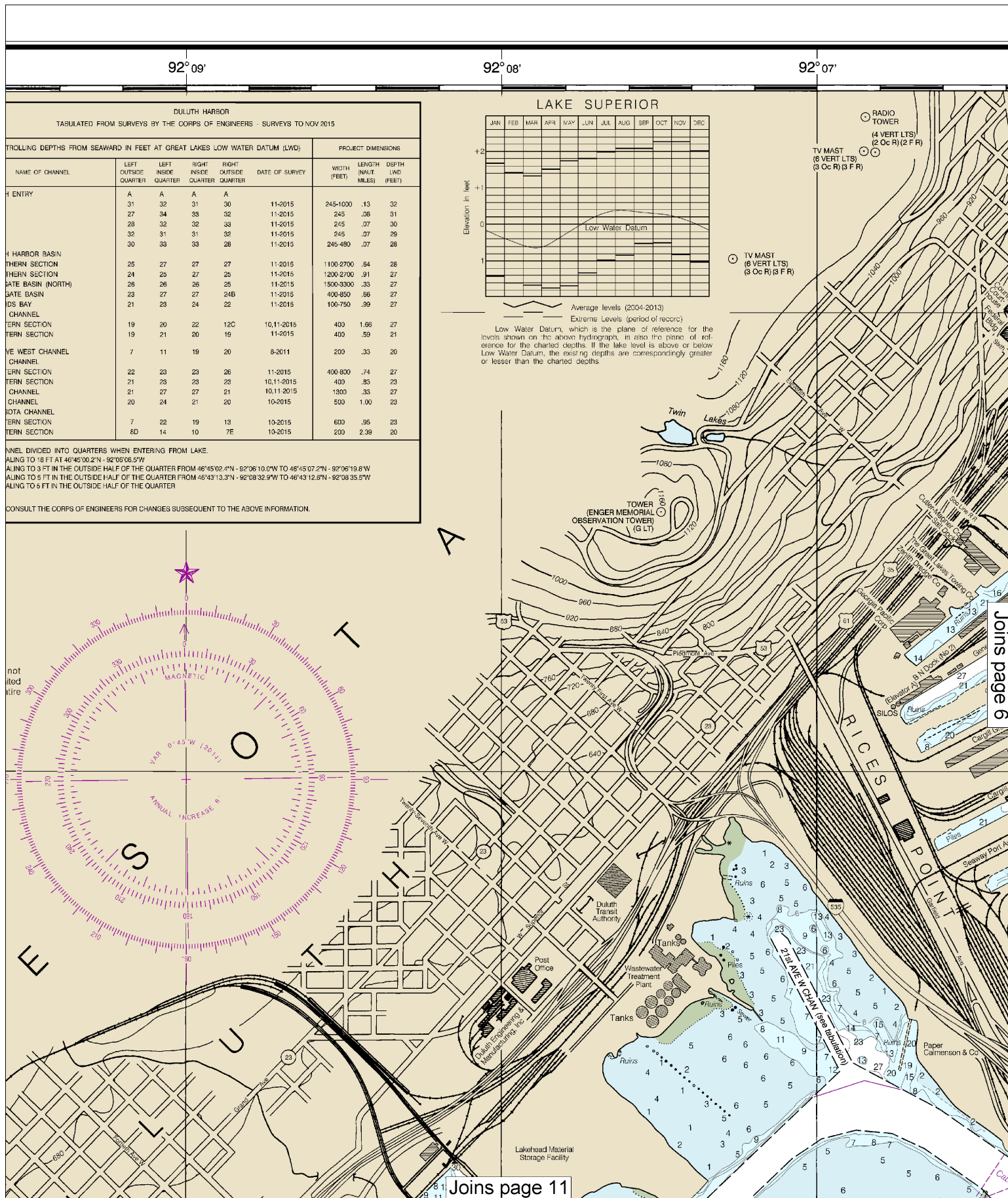
Note: Chart grid
lines are aligned
with true north.

Printed at reduced scale.

SCALE 1:15,000

See Note on page 5.





This BookletChart was reduced to 75% of the original chart scale.
 The new scale is 1:20000. Barscales have also been reduced and
 are accurate when used to measure distances in this BookletChart.

92° 09'

92° 08'

92° 07'

92° 06'

DULUTH HARBOR
CORPS OF ENGINEERS - SURVEYS TO NOV 2015

AT LAKES LOW WATER DATUM (LWD)

PROJECT DIMENSIONS

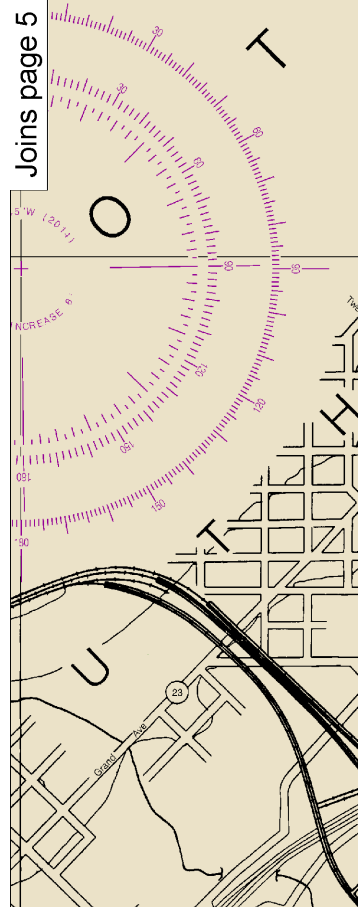
RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH NAUT. MILES	DEPTH LWD (FEET)
A	A				
31	30	11-2015	245-1000	.13	32
33	32	11-2015	245	.06	31
32	33	11-2015	245	.07	30
31	32	11-2015	245	.07	29
33	28	11-2015	245-490	.07	28
27	27	11-2015	1100-2700	.54	28
27	25	11-2015	1200-2700	.91	27
26	25	11-2015	1500-3300	.33	27
27	24B	11-2015	400-850	.56	27
24	22	11-2015	100-750	.39	27
22	12C	10,11-2015	400	1.66	27
20	19	11-2015	400	.59	21
19	20	8-2011	200	.33	20
23	26	11-2015	400-800	.74	27
23	23	10,11-2015	400	.83	23
27	21	10,11-2015	1300	.33	27
21	20	10-2015	500	1.00	23
19	13	10-2015	600	.95	23
10	7E	10-2015	200	2.39	20

DULUTH LAKE

FROM 46°45'02.4"N - 92°06'10.0"W TO 46°45'07.2"N - 92°06'19.6"W
FROM 46°43'13.3"N - 92°08'32.9"W TO 46°43'12.6"N - 92°08'35.5"W

SUBSEQUENT TO THE ABOVE INFORMATION.

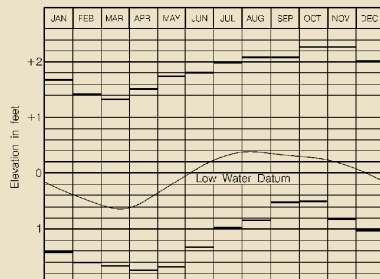
Joins page 5



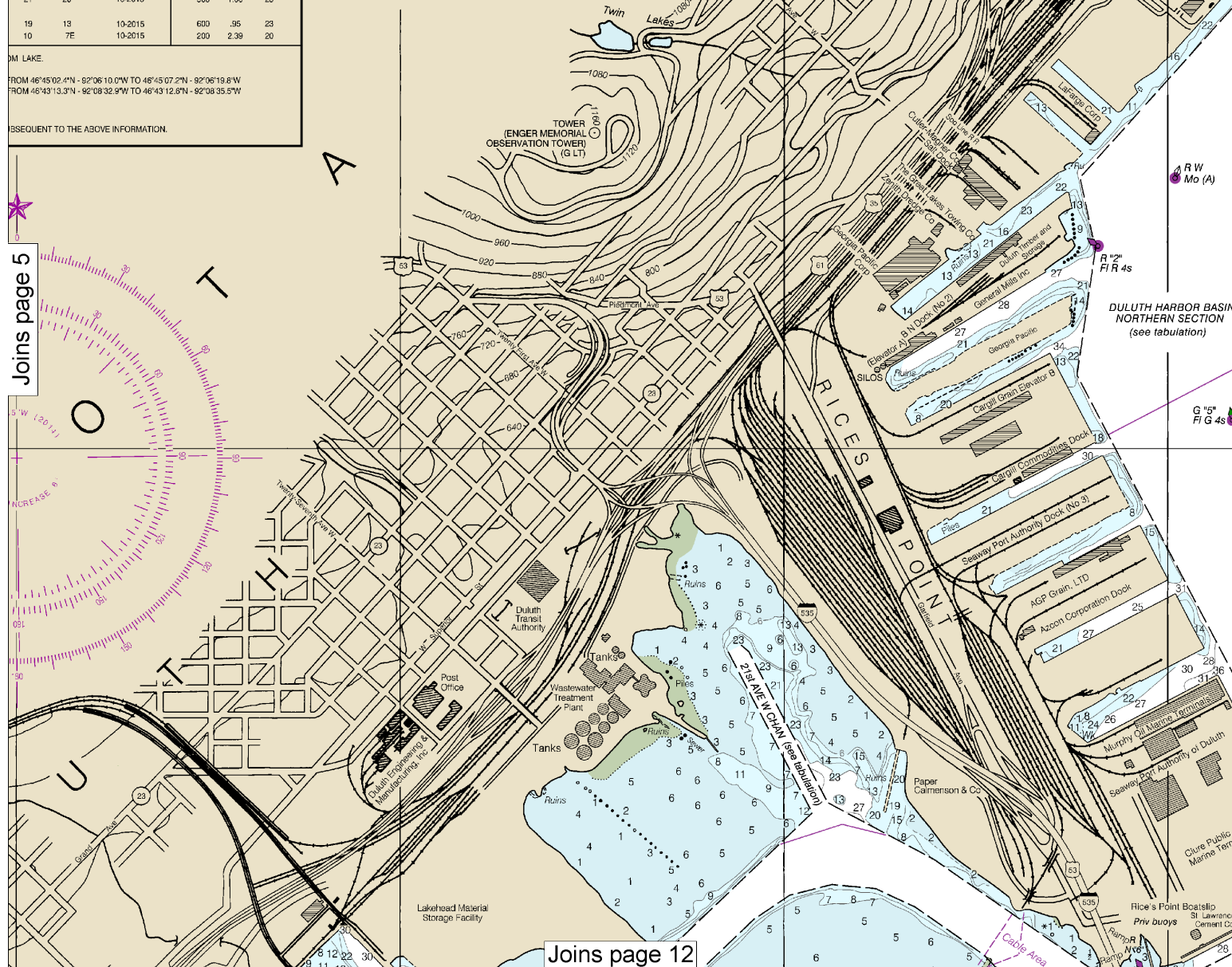
6

Note: Chart grid
lines are aligned
with true north.

LAKE SUPERIOR



Average levels (2004-2013)
Extreme Levels (period of record)
Low Water Datum, which is the plane of reference for the levels shown on the above hydrograph, is also the plane of reference for the charted depths. If the lake level is above or below Low Water Datum, the existing depths are correspondingly greater or lesser than the charted depths.

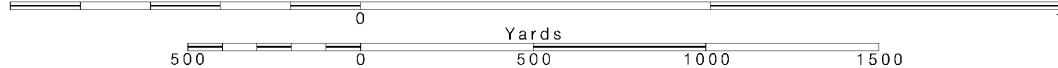


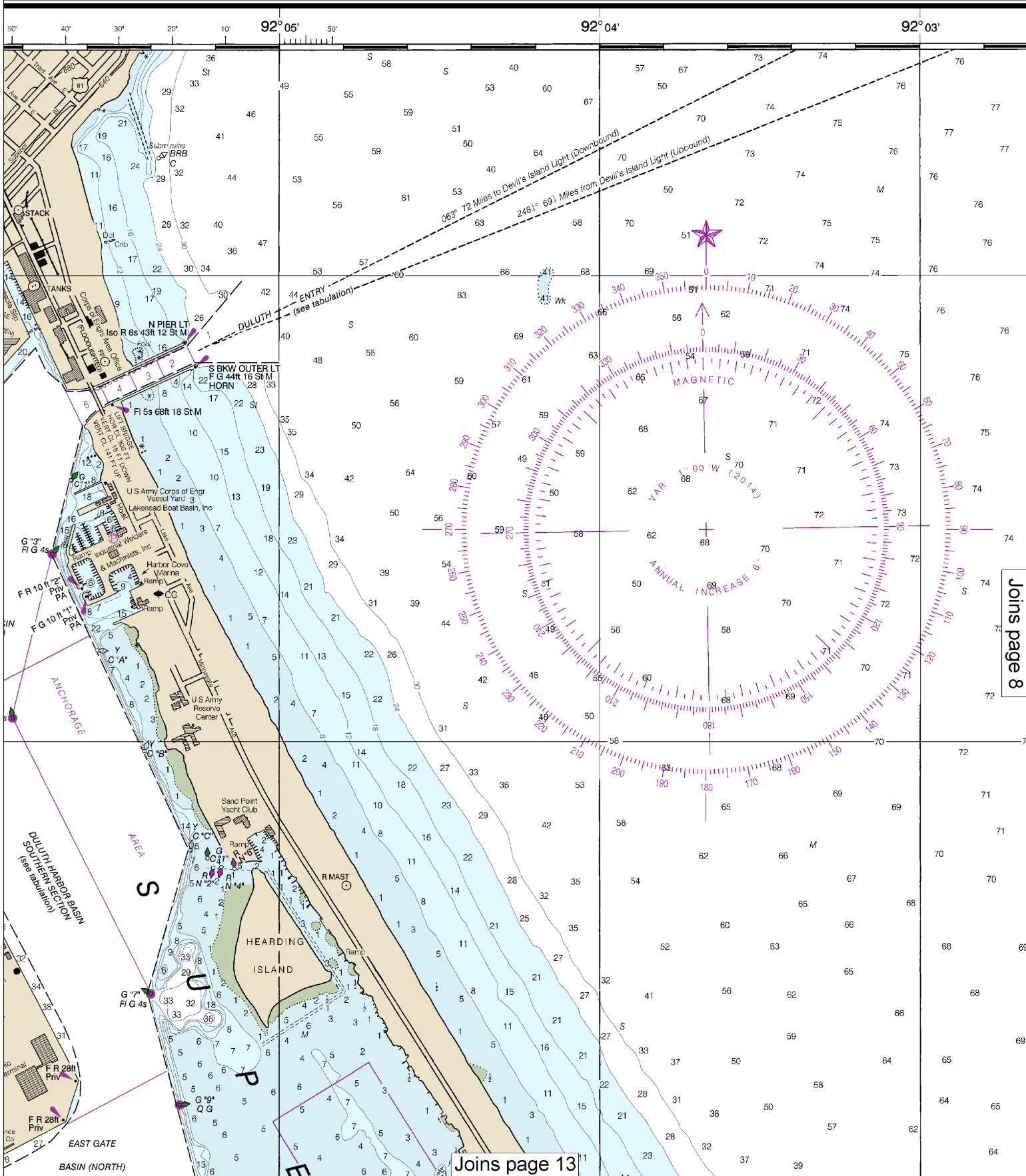
Joins page 12

Printed at reduced scale.

SCALE 1:15,000
Nautical Miles

See Note on page 5.

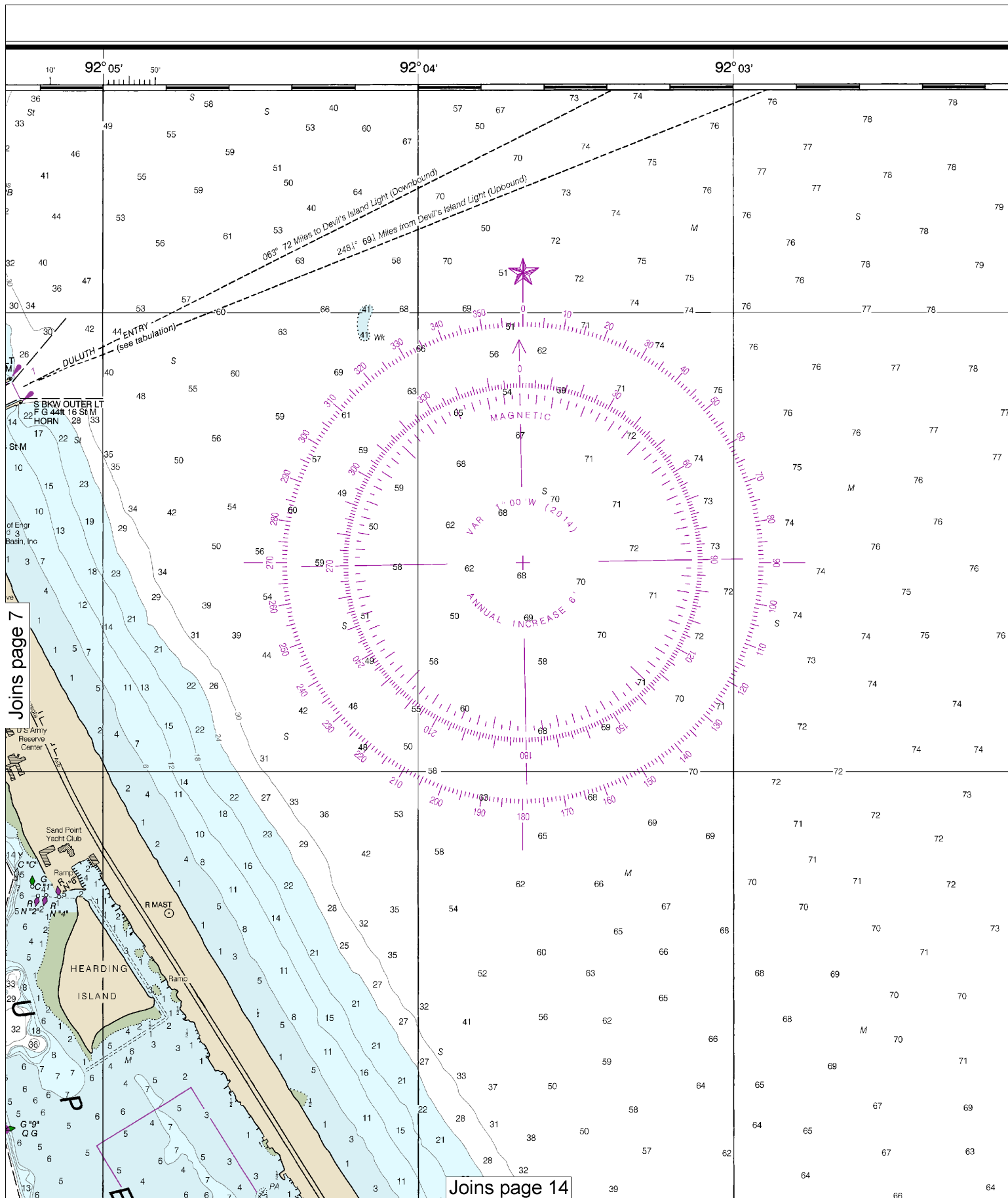




Joins page 8

Joins page 13

Last Correction: 3/7/2016. Cleared through:
 LNM: 4616 (11/15/2016), NM: 4616 (11/12/2016), CHS: 1016 (10/28/2016)



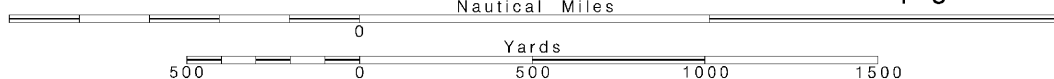
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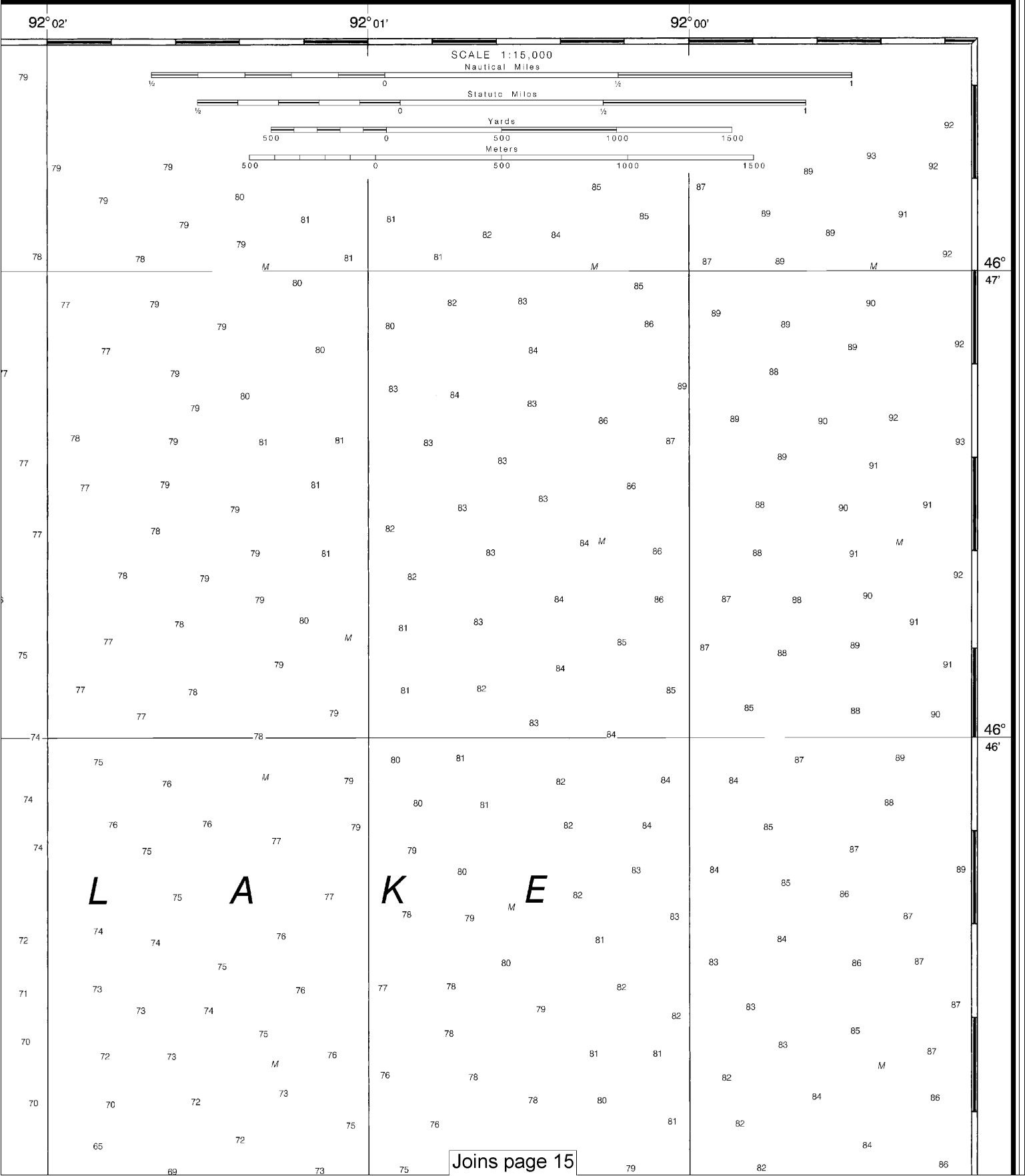
Note: Chart grid lines are aligned with true north.

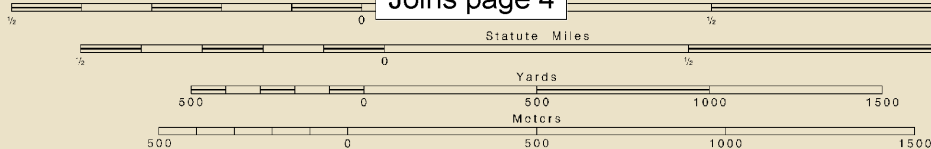
Printed at reduced scale.

SCALE 1:15,000

See Note on page 5.





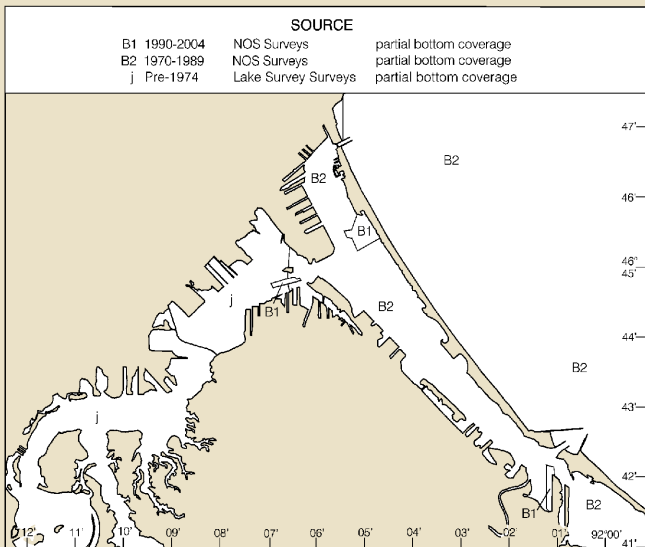


SOURCE DIAGRAM

The outlined areas represent the limits of the most recent hydrographic survey information that has been evaluated for charting. Surveys have been banded in this diagram by date and type of survey. Channels maintained by the U.S. Army Corps of Engineers are periodically resurveyed and are not shown on this diagram. Refer to Chapter 1, *United States Coast Pilot*.

SOURCE

B1 1990-2004	NOS Surveys	partial bottom coverage
B2 1970-1989	NOS Surveys	partial bottom coverage
j Pre-1974	Lake Survey Surveys	partial bottom coverage



Ⓟ Pump-out facilities

CAUTION

SUBMARINE PIPELINES AND CABLES

Charted submarine pipelines and submarine cables and submarine pipeline and cable areas are shown as:

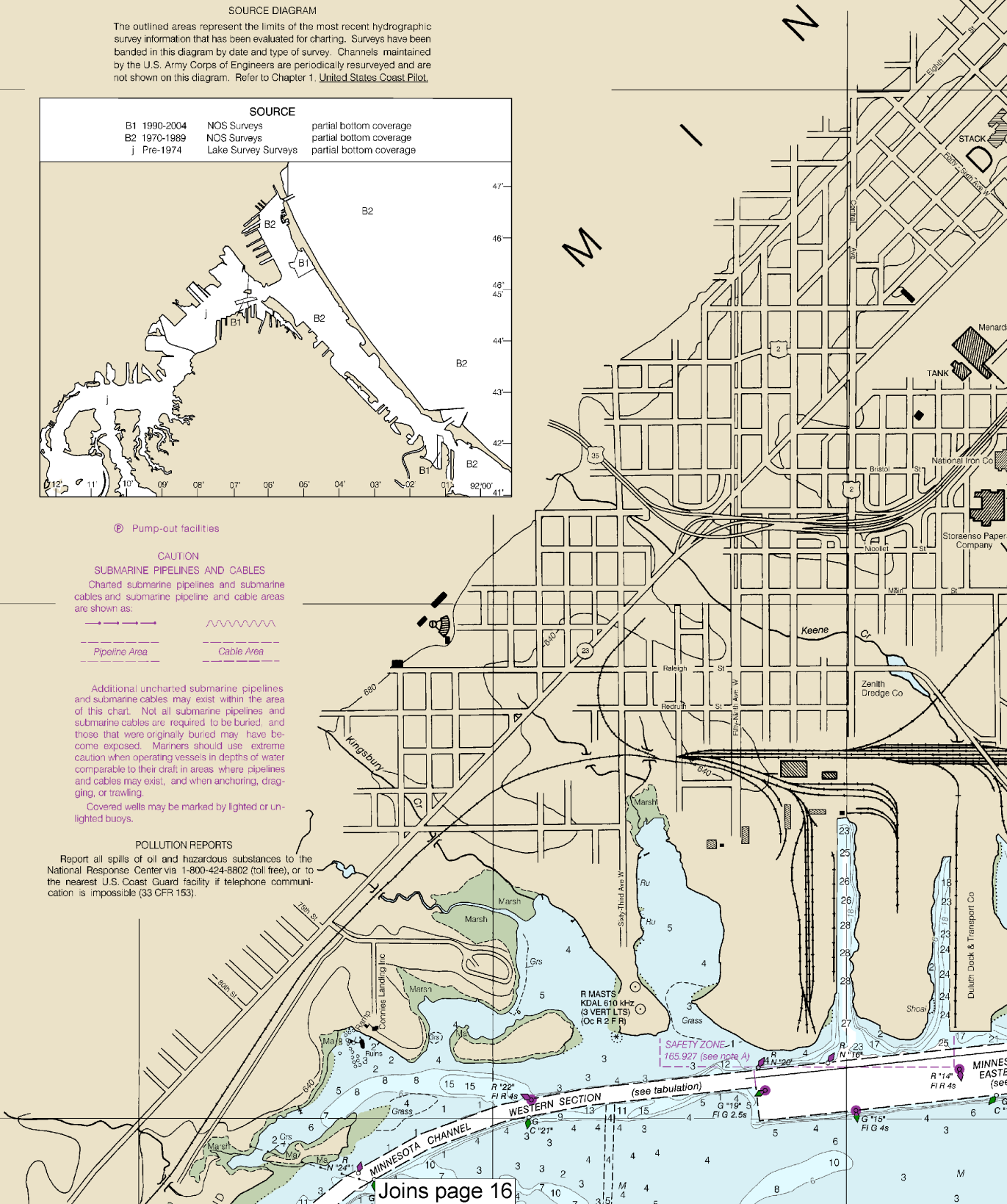


Additional uncharted submarine pipelines and submarine cables may exist within the area of this chart. Not all submarine pipelines and submarine cables are required to be buried, and those that were originally buried may have become exposed. Mariners should use extreme caution when operating vessels in depths of water comparable to their draft in areas where pipelines and cables may exist, and when anchoring, dragging, or trawling.

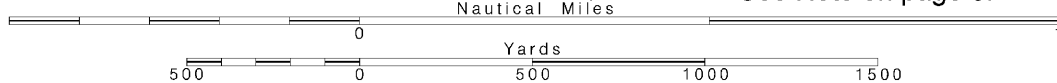
Covered wells may be marked by lighted or unlighted buoys.

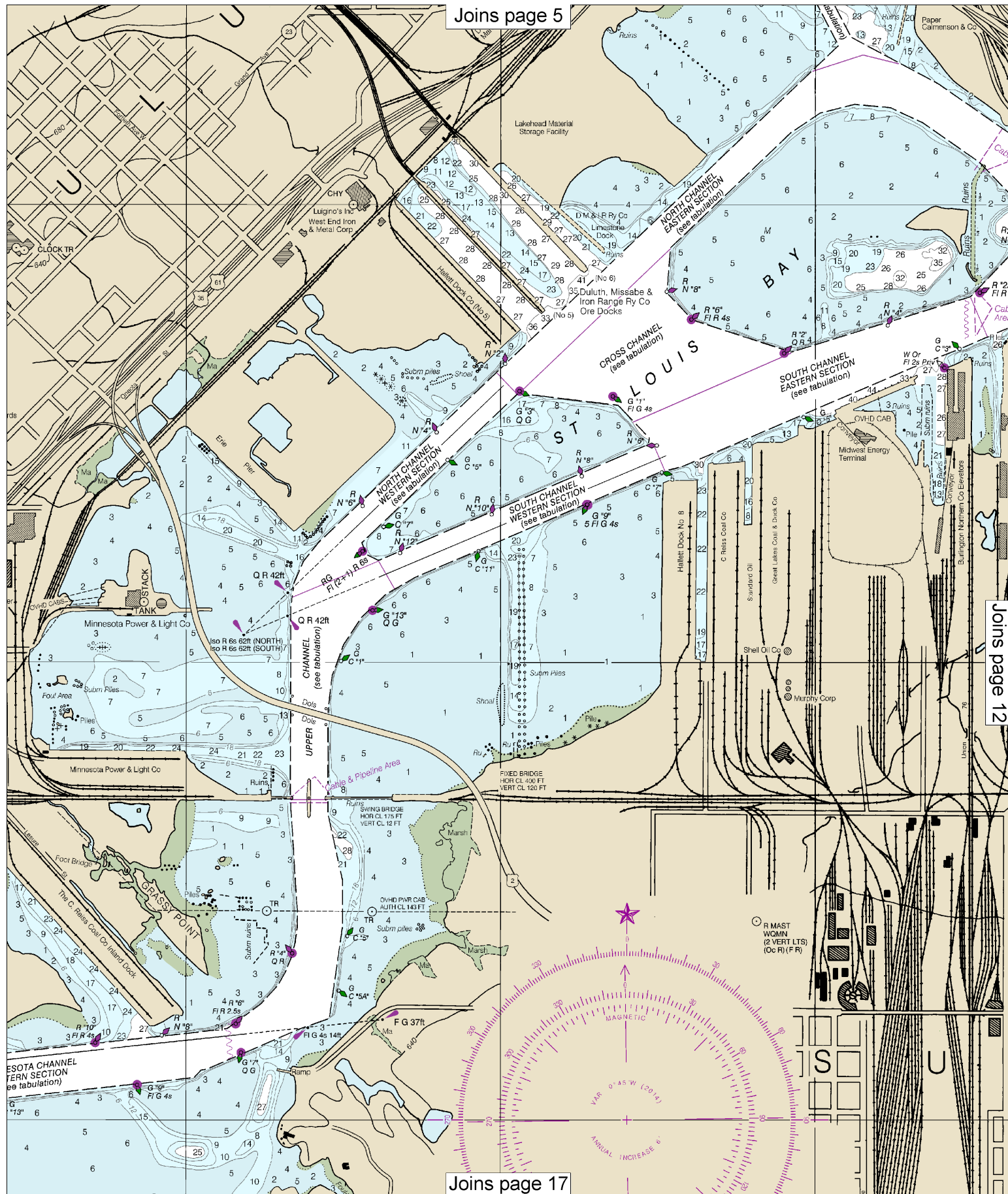
POLLUTION REPORTS

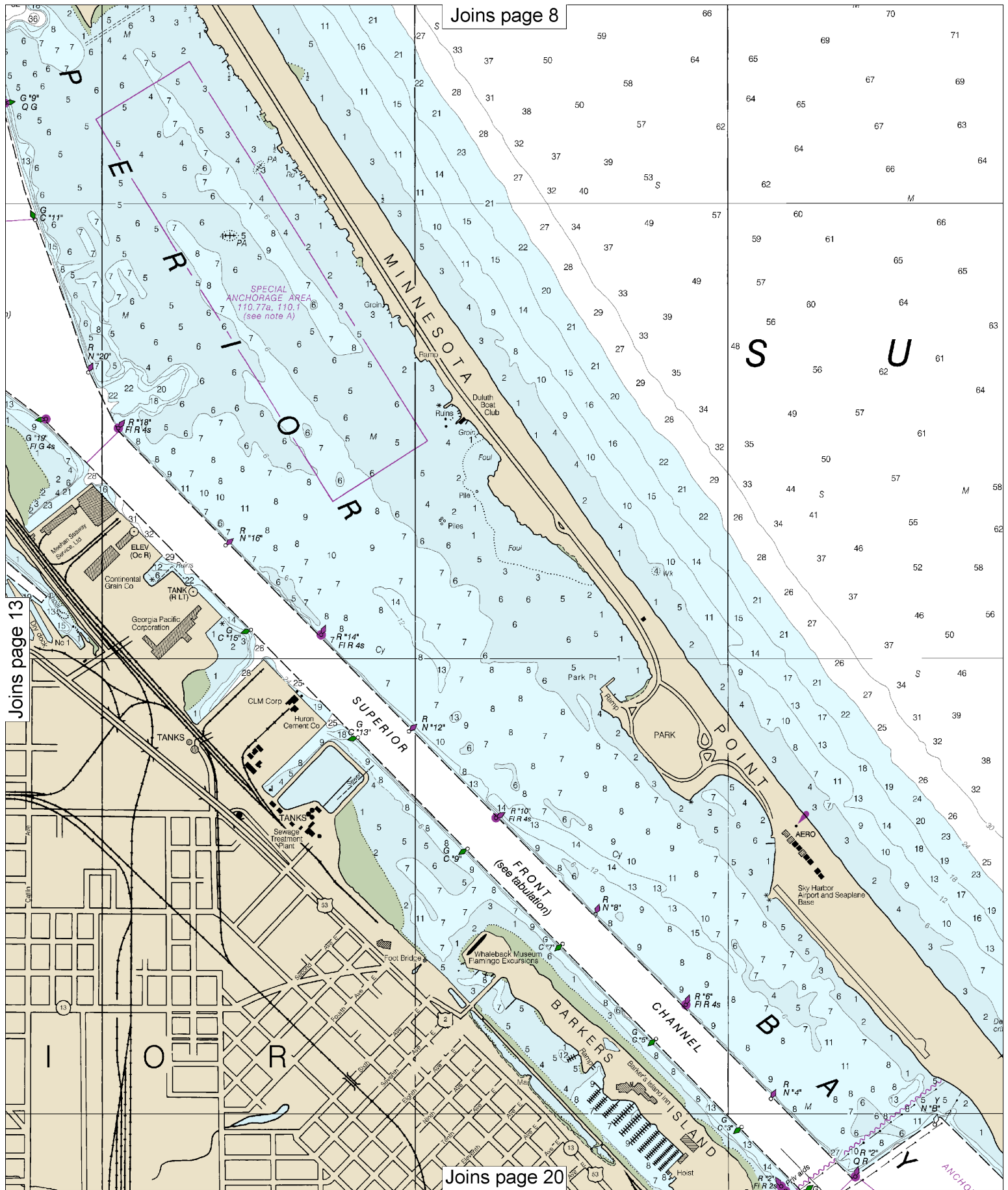
Report all spills of oil and hazardous substances to the National Response Center via 1-800-424-8802 (toll free), or to the nearest U.S. Coast Guard facility if telephone communication is impossible (33 CFR 153).



Joins page 16







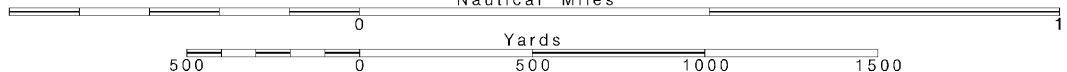
14

Note: Chart grid lines are aligned with true north.

Printed at reduced scale.

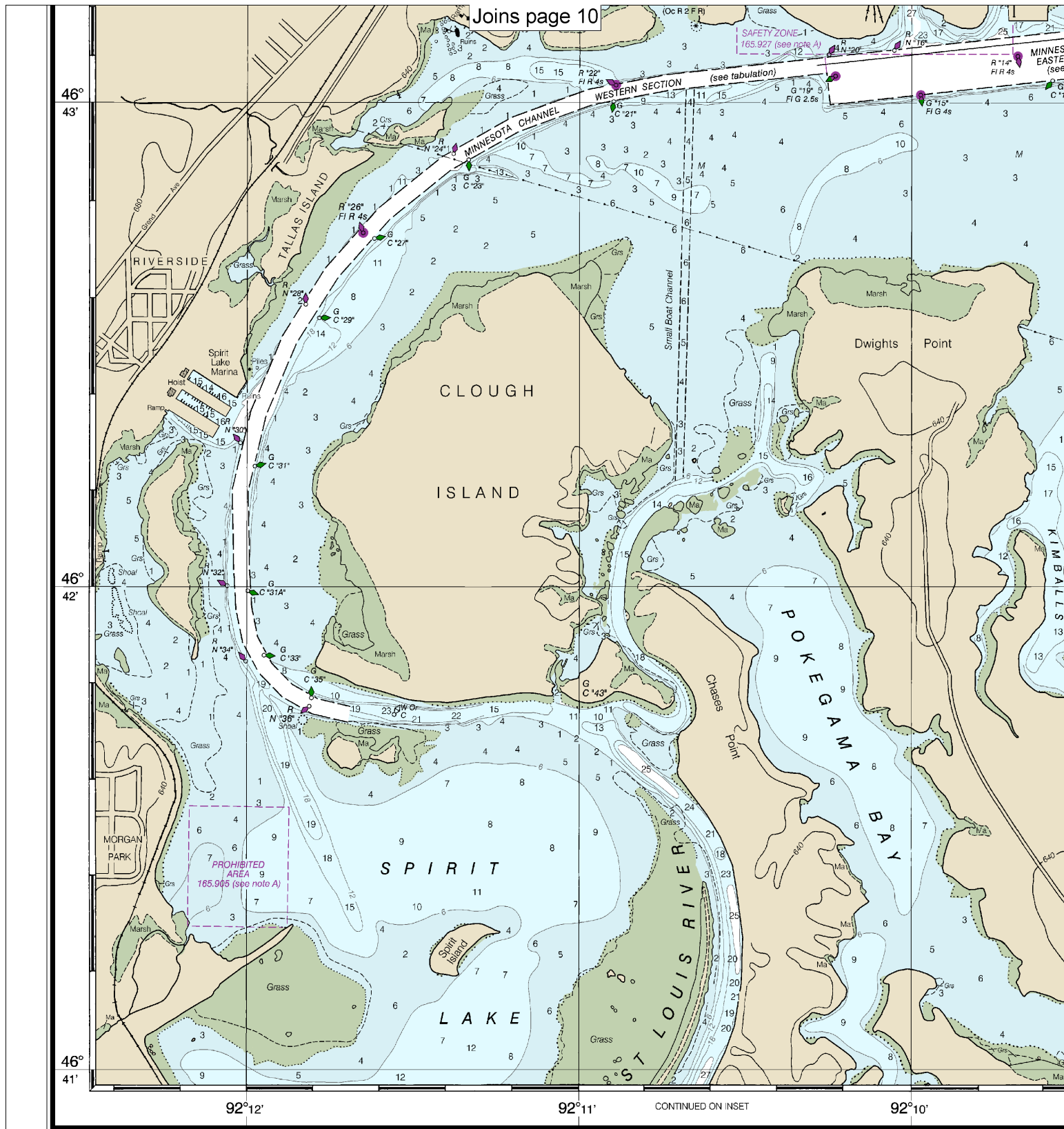
SCALE 1:15,000
Nautical Miles

See Note on page 5.



Joins page 21





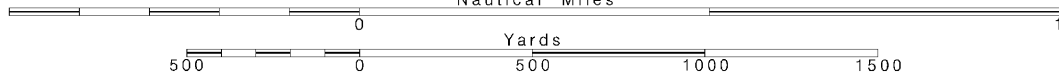
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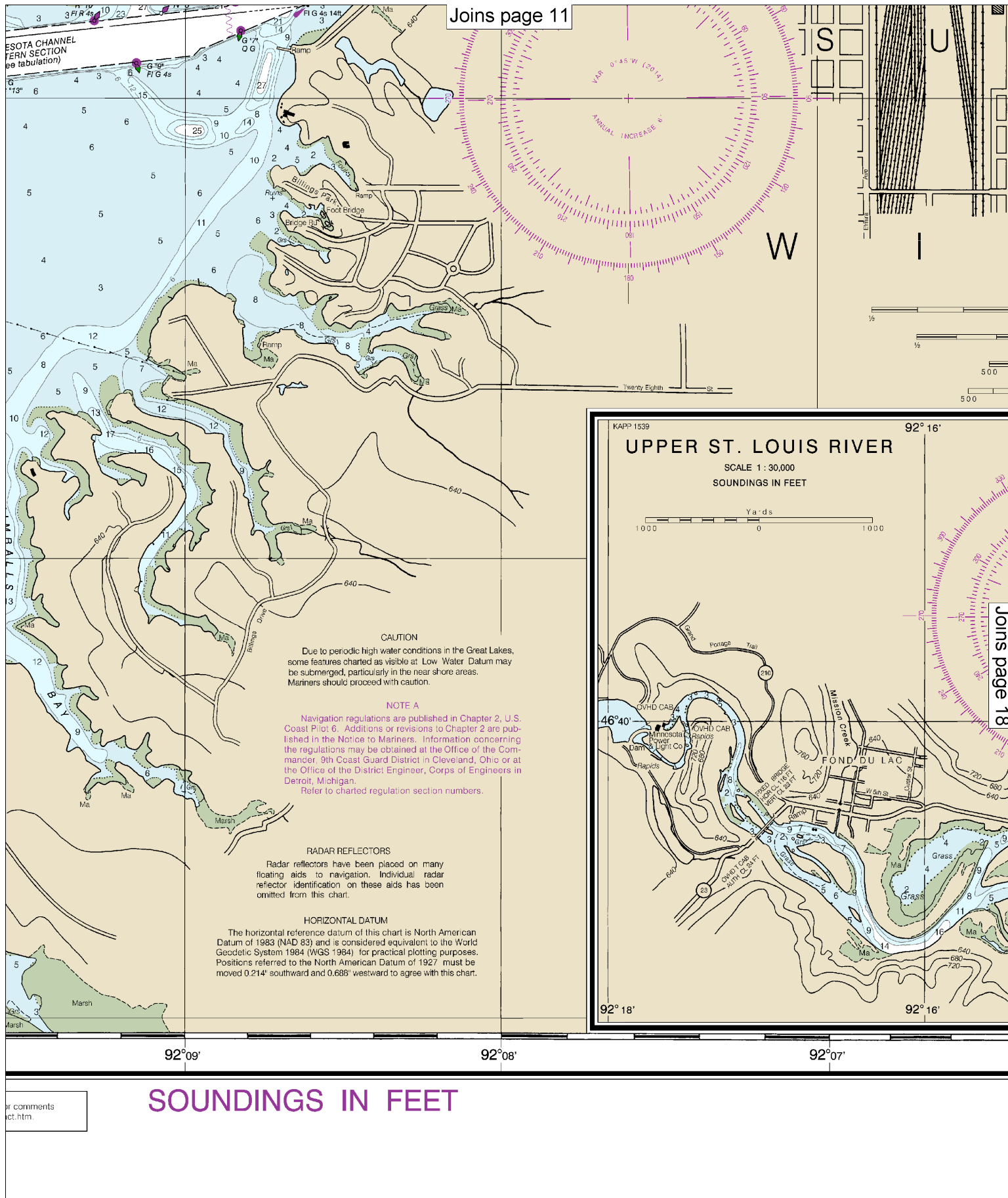
Note: Chart grid lines are aligned with true north.

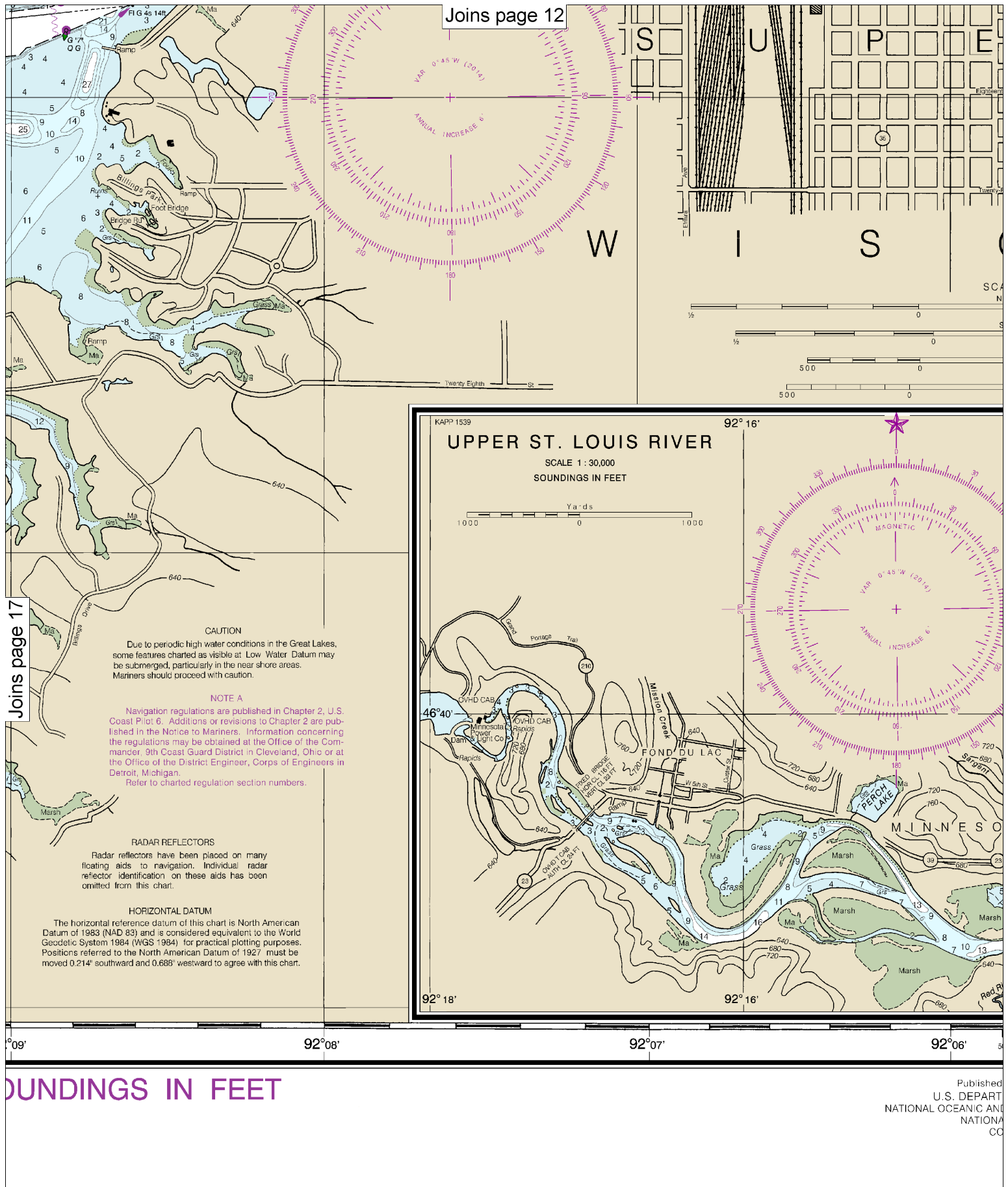
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SCALE 1:15,000
Nautical Miles

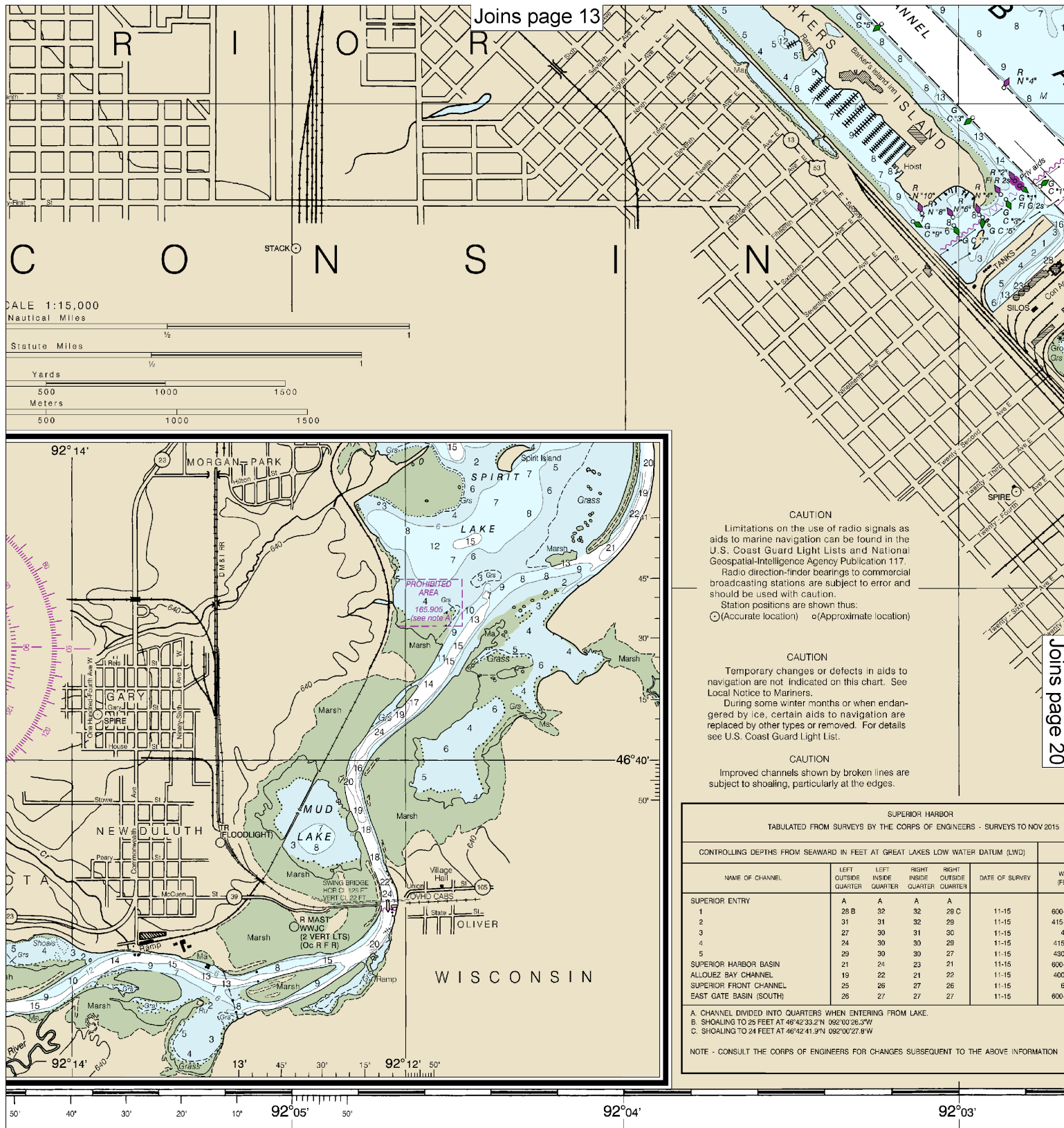
See Note on page 5.



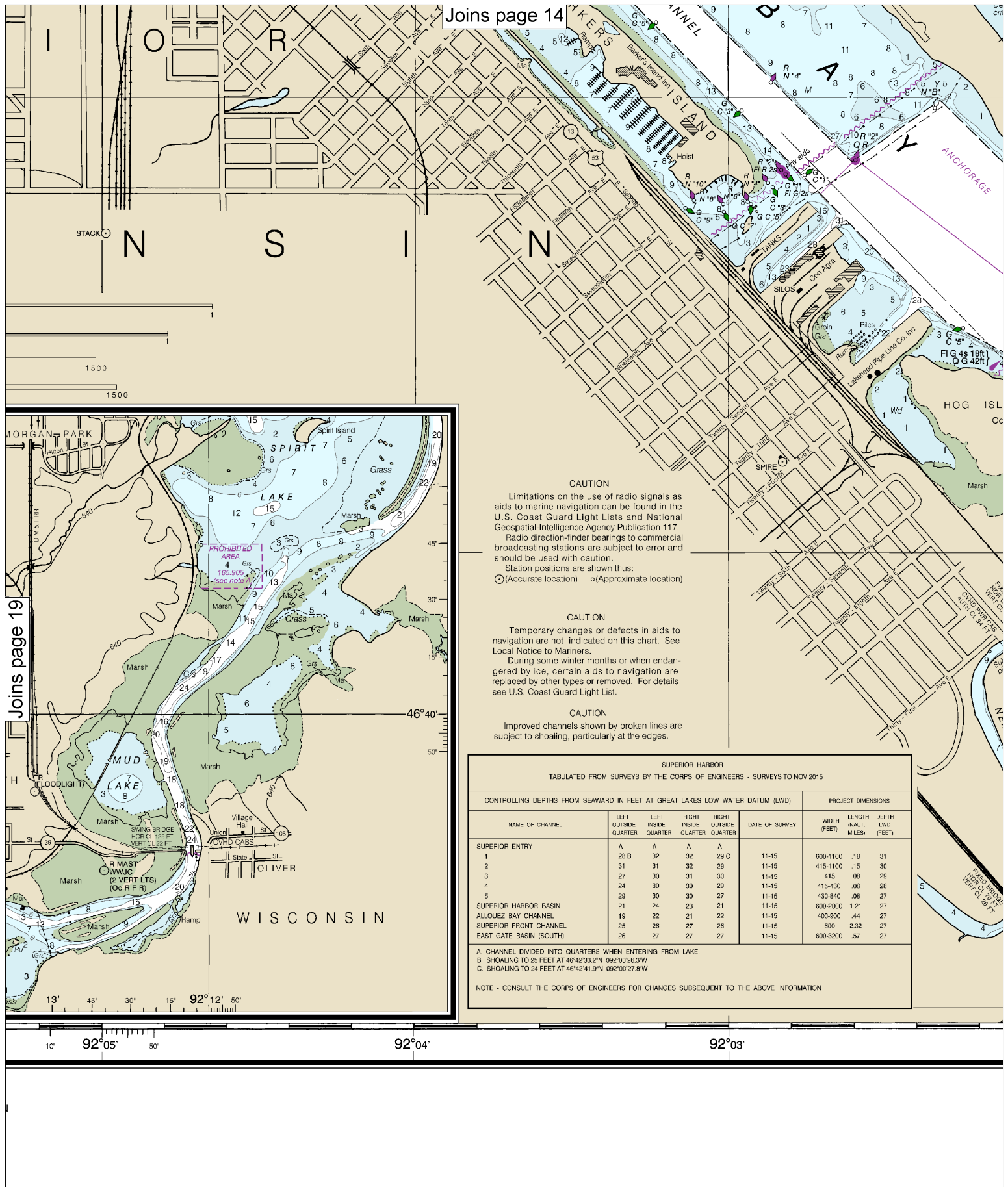




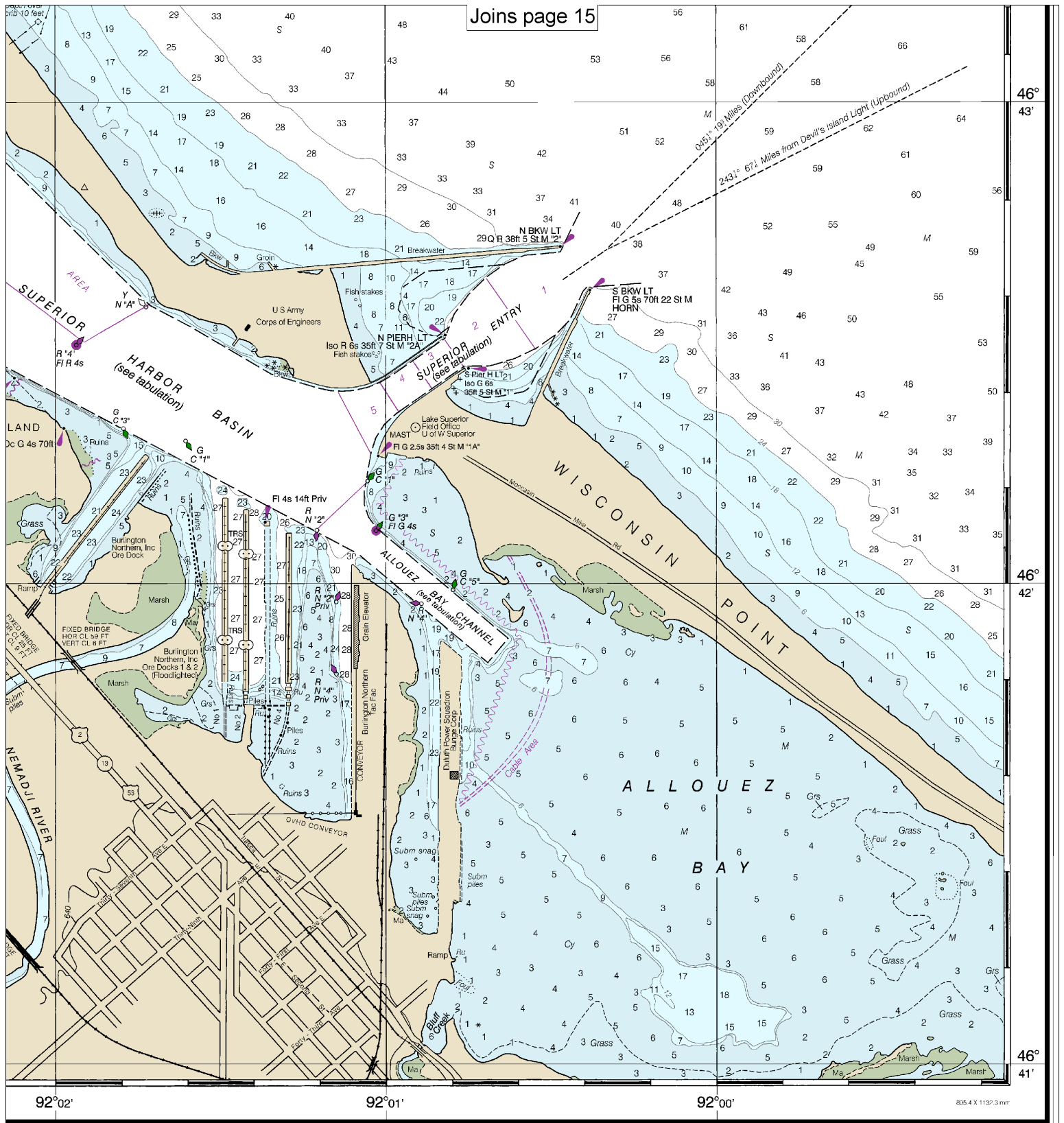
Note: Chart grid lines are aligned with true north.



U.S. Coast Guard
Department of Commerce
National Ocean Service
Coast Survey



Note: Chart grid lines are aligned with true north.



FATHOMS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
FEET	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102
METERS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17

Duluth - Superior Harbor
SOUNDINGS IN FEET - SCALE 1:15,000

14975



VHF Marine Radio channels for use on the waterways:

Channel 6 – Inter-ship safety communications.

Channel 9 – Communications between boats and ship-to-coast.

Channel 13 – Navigation purposes at bridges, locks, and harbors.

Channel 16 – Emergency, distress and safety calls to Coast Guard and others, and to initiate calls to other

vessels. Contact the other vessel, agree to another channel, and then switch.

Channel 22A – Calls between the Coast Guard and the public. Severe weather warnings, hazards to navigation and safety warnings are broadcast here.

Channels 68, 69, 71, 72 and 78A – Recreational boat channels.

Getting and Giving Help — Signal other boaters using visual distress signals (flares, orange flag, lights, arm signals); whistles; horns; and on your VHF radio. You are required by law to help boaters in trouble. Respond to distress signals, but do not endanger yourself.



NOAA Weather Radio All Hazards (NWR) is a nationwide network of radio stations broadcasting continuous weather information directly from the nearest National Weather Service office. NWR broadcasts official Weather Service warnings, watches, forecasts and other hazard information 24 hours a day, 7 days a week.

<http://www.nws.noaa.gov/nwr/>

Distress Call Procedures

- Make sure radio is on.
- Select Channel 16.
- Press/Hold the transmit button.
- Clearly say: "MAYDAY, MAYDAY, MAYDAY."
- Also give: Vessel Name and/or Description; Position and/or Location; Nature of Emergency; Number of People on Board.
- Release transmit button.
- Wait for 10 seconds — If no response Repeat MAYDAY call.

HAVE ALL PERSONS PUT ON LIFE JACKETS!

Quick References

Nautical chart related products and information	—	http://www.nauticalcharts.noaa.gov
Interactive chart catalog	—	http://www.charts.noaa.gov/InteractiveCatalog/nrnc.shtml
Report a chart discrepancy	—	http://ocsddata.ncd.noaa.gov/idrs/discrepancy.aspx
Chart and chart related inquiries and comments	—	http://ocsddata.ncd.noaa.gov/idrs/inquiry.aspx?frompage=ContactUs
Chart updates (LNM and NM corrections)	—	http://www.nauticalcharts.noaa.gov/mcd/updates/LNM_NM.html
Coast Pilot online	—	http://www.nauticalcharts.noaa.gov/nsd/cpdownload.htm
Tides and Currents	—	http://tidesandcurrents.noaa.gov
Marine Forecasts	—	http://www.nws.noaa.gov/om/marine/home.htm
National Data Buoy Center	—	http://www.ndbc.noaa.gov/
NowCoast web portal for coastal conditions	—	http://www.nowcoast.noaa.gov/
National Weather Service	—	http://www.weather.gov/
National Hurricane Center	—	http://www.nhc.noaa.gov/
Pacific Tsunami Warning Center	—	http://ptwc.weather.gov/
Contact Us	—	http://www.nauticalcharts.noaa.gov/staff/contact.htm



— For the latest news from Coast Survey, follow **@NOAAcharts**



This Booklet chart has been designed for duplex printing (printed on front and back of one sheet). If a duplex option is not available on your printer, you may print each sheet and arrange them back-to-back to allow for the proper layout when viewing.